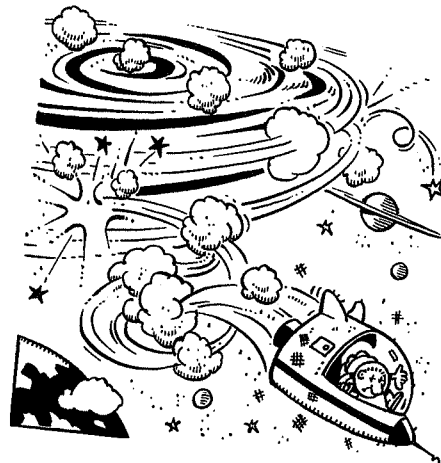


Expanding perfect squares and difference of two squares

We have some pretty big cyclones here on Earth, but somewhere in the solar system there is a bigger one going on right now. Where and what is it?



To find the answer, draw a line from each expression to its expanded form. The line will go through a letter and a number that you can use in the code box below.

$$(x + 5)^2$$

$$(y - 3)(y + 3)$$

$$(2x + 5y)^2$$

$$(x - 4)(x + 4)$$

$$(x + 6)^2$$

$$(2x - 5y)(2x + 5y)$$

$$(x + y)^2$$

$$(y - 11)(y + 11)$$

$$(x + 3y)^2$$

$$(2y - x)(2y + x)$$

$$(x - 10)^2$$

$$(4y - 2x)(4y + 2x)$$

$$(y - x)^2$$

$$(3y - 8x)(3y + 8x)$$

1

G

2

3

O

S

4

6

5

H

P

7

D

A

8

N

9

10

R

11

13

U

I

12

E

14

J

$$x^2 + 12x + 36$$

$$x^2 + 10x + 25$$

$$4x^2 + 20xy + 25y^2$$

$$4x^2 - 25y^2$$

$$y^2 - 9$$

$$x^2 + 2xy + y^2$$

$$x^2 - 16$$

$$y^2 - 121$$

$$y^2 - 2xy + x^2$$

$$x^2 + 6xy + 9y^2$$

$$9y^2 - 64x^2$$

$$4y^2 - x^2$$

$$x^2 - 20x + 100$$

$$16y^2 - 4x^2$$

3	5	13

1	11	13	8	3

11	13	6

4	7	2	3

2	9

14	12	7	10	3	13	11